



## TECHNICAL DATA SHEET

### RAPIDSEAL N40 LMN SILICONE SEALANT

#### 1. PRODUCT DESCRIPTION:

N40 LMN is an easily applied, one part neutral curing low modulus silicone sealant. Outstanding adhesion to most common construction substrates reacts with atmospheric moisture to form a durable and flexible seal. N40 LMN silicone sealant can withstand movement of +/- 20% in constant service, throughout a wide temperature range.

#### 2. PROPERTIES:

N40 LMN combines the advantages of primerless adhesion and neutrality and can be used on numerous substrates such as glass, coated glass, anodised or as-cast aluminium, steel, stainless steel, rigid PVC, concrete and other porous substrates. Once cured, N40 LMN is highly resistant to exposure from sunlight, rain, snow and ozone and maintains this resistance over many years.

#### 3. APPLICATIONS:

Specifically developed for construction applications, N40 LMN is ideal for weather-sealing expansion and movement joints, glazing applications and general weather sealing of construction substrates such as curtain walls, facade panels, metallic and PVC joinery, glazing window joints on PVC, wood and aluminium. For external use only.

#### 4. CHARACTERISTICS:

|                                                                    |                 |
|--------------------------------------------------------------------|-----------------|
| Type of sealant.....                                               | Alcoxy          |
| Density, approx, ISO1133 method B.....                             | 1.00            |
| Consistency IOS7390 profile U20.....                               | Nil             |
| Skin formation time, 23°C/50°C rel.humidity.....                   | 15 mins         |
| Application temperatures.....                                      | +5°C to +40°C   |
| Service temperatures.....                                          | +40°C to +100°C |
| Joint movement capability.....                                     | +/-20%          |
| Shore A hardness, approx, ISO868 (2mm thick film).....             | 18              |
| Elastic recovery, approx, EN27389.....                             | 90%             |
| Mechanical properties on a 2mm thick film (NF T 46002):            |                 |
| Modulus at 100% elongation, approx.....                            | 0.33 MPa        |
| Tensile strength, approx.....                                      | 0.5 MPa         |
| Elongation at break.....                                           | 200%            |
| Mechanical properties on test samples in accordance with EN 28339; |                 |
| Modulus at 100% elongation, approx.....                            | 0.35 MPa        |
| Tensile strength, approx.....                                      | 0.32 MPa        |
| Elongation at break.....                                           | 250%            |

## 5. CONFORMITY TO SPECIFICATIONS:

N40 LMN conforms to the requirements of ISO 1160, BS5889.

## 6. WORKING PROCEDURE:

### Surface Preparation:

All surfaces must be clean, dry and free from dust or traces of contaminants, which may affect adhesion. To degrease, wipe with a pad soaked in solvent then with a clean cloth. Dust should be removed using oil-free compressed air. N40 LMN sealant does not require a primer on most common substrates, except in the case of immersion, mainly with porous substrates. Please consult us for more information. The primer should preferably be applied using a soft hair paintbrush. In the case of particularly porous substrates, a second coat may be applied after the first one has dried.

### Joint dimensions:

The joint movement capability of sealants in addition to local regulations must be considered. In order to allow the sealant to operate under the best possible conditions, the minimum cross-section of the seal should be 5 x 5mm. For seals wider than 12mm, the thickness will generally be determined as being half this width.

Consumption of sealant per 300ml cartridge for the following seal dimensions are given for information purposes only;

12 metres of 5 x 5mm seals

5 metres of 8 x 8mm seals

2.5 metres of 15 x 8mm seals

1.5 metres of 20 x 10mm seals

### Applying the Sealant:

Once a seal backing material has been put in place (closed cell polyethylene foam with surface skin or open cell polyurethane foam), the sealant should be applied ensuring that the seal is completely filled. Tool the seal to ensure good contact between the sealant and the bonded surfaces. This should be carried out using a dry spatula before the surface skin is formed. Areas soiled with fresh sealant may be cleaned with a dry pad or a pad soaked in a solvent (compatible with the substrate). Any cured sealant can be removed by scraping (e.g. using a razor blade)

## 7. LIMITATIONS OF USE:

N40 LMN sealant must not be used in contact with materials which may exude certain of their components over time or with copper based metallic substrates. It is not recommended for use when there is any risk of abrasion.

N40 LMN sealant must not be used in the manufacture of aquariums or in sealing swimming pools. For any immersed type of application, please consult us.

N40 LMN sealant must not be used applications in permanent contact with food products.

N40 LMN sealant must not be painted (poor covering and adhesion of the paint). In the event of its application on alkyd paints (glycerophthalic), slight yellowing of the paint may appear where in contact with the seal.

For external use only.

## 8. AVAILABLE COLOURS:

N40 LMN is available in white, black, translucent, bronze, grey and mahogany.

## 9. PACKAGING:

N40 LMN sealant is supplied 300ml cartridges, boxed in 25.  
Full pallet quantity is 1200 cartridges (48 boxes).

## 10. STORAGE AND SHELF LIFE:

N40 LMN has a shelf life of 18 months from its date of manufacture. (Date of manufacture is shown on top of packaging). Store in original packing at temperatures +5°C - +25°C in a cool, dry place.

Once the product has been opened, the product must be used as soon as possible. If the material is kept beyond the shelf life shown on the product label, it is not necessarily unusable, but quality control should be performed on the properties relevant to the application.

## 11. SAFETY:

Consult the Material Safety Data Sheet for N40 LMN Silicone Sealant.

The information provided in this Technical Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the content of the Technical Data Sheet.



IFI  
Rutland Business Park  
Newark Road  
Peterborough  
PE1 5WA  
UNITED KINGDOM

[www.ifi.eu](http://www.ifi.eu)

Sales Phone: 01733 847 520  
Sales Fax: 01733 343 465  
Email: [ifi@ifi.eu](mailto:ifi@ifi.eu)